

#9 1651

## RAW SEQUENCE LISTING

DATE: 07/26/2001

PATENT APPLICATION: US/09/541,844A

TIME: 16:12:59

Input Set : A:\s03108-00-us seqlist.txt

Output Set: N:\CRF3\07262001\I541844A.raw

ENTERED

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4 <110> APPLICANT: Tou, Jacob
5     Taylor, Douglas
7 <120> TITLE OF INVENTION: Method of removing N-terminal alanine
8     residues from polypeptides with Aeromonas aminopeptidase
11 <130> FILE REFERENCE: S03108-00-US
13 <140> CURRENT APPLICATION NUMBER: US 09/541,844A
14 <141> CURRENT FILING DATE: 2000-04-03
16 <150> PRIOR APPLICATION NUMBER: 60/132,062
17 <151> PRIOR FILING DATE: 1999-04-30
19 <160> NUMBER OF SEQ ID NOS: 9
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 13
25 <212> TYPE: PRT
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Synthetic peptide to test substrate specificity of
30     E. coli methionine aminopeptidase
32 <400> SEQUENCE: 1
33 Met Ala Pro Thr Ser Ser Ser Thr Lys Lys Thr Gln Leu
34 1          5          10
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 11
38 <212> TYPE: PRT
39 <213> ORGANISM: Artificial Sequence
41 <220> FEATURE:
42 <223> OTHER INFORMATION: Synthetic peptide to test substrate specificity of
43     E. coli methionine aminopeptidase
45 <400> SEQUENCE: 2
46 Met Pro Thr Ser Ser Ser Thr Lys Lys Gln Cys
47 1          5          10
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 13
51 <212> TYPE: PRT
52 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Synthetic peptide to test substrate specificity of
56     E. coli methionine aminopeptidase
58 <400> SEQUENCE: 3
59 Leu Ala Pro Thr Ser Ser Ser Thr Lys Lys Thr Gln Leu
60 1          5          10
62 <210> SEQ ID NO: 4
63 <211> LENGTH: 12
64 <212> TYPE: PRT
65 <213> ORGANISM: Artificial Sequence
67 <220> FEATURE:
68 <223> OTHER INFORMATION: Synthetic peptide to test substrate specificity of

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69      E. coli methionine aminopeptidase
71 <400> SEQUENCE: 4
72 Ala Pro Thr Ser Ser Ser Thr Lys Lys Thr Gln Leu
73 1          5          10
75 <210> SEQ ID NO: 5
76 <211> LENGTH: 10
77 <212> TYPE: PRT
78 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: Synthetic peptide to test substrate specificity of
82      E. coli methionine aminopeptidase
84 <400> SEQUENCE: 5
85 Pro Thr Ser Ser Ser Thr Lys Lys Gln Cys
86 1          5          10
88 <210> SEQ ID NO: 6
89 <211> LENGTH: 8
90 <212> TYPE: PRT
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: T1 is the N-terminal tryptic peptide of native
95      human hGH
97 <400> SEQUENCE: 6
98 Phe Pro Thr Ile Pro Leu Ser Arg
99 1          5
101 <210> SEQ ID NO: 7
102 <211> LENGTH: 9
103 <212> TYPE: PRT
104 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <223> OTHER INFORMATION: Ala-T1 is the N-terminal tryptic peptide of
108      Ala-hGH
110 <400> SEQUENCE: 7
111 Ala Phe Pro Thr Ile Pro Leu Ser Arg
112 1          5
114 <210> SEQ ID NO: 8
115 <211> LENGTH: 191
116 <212> TYPE: PRT
117 <213> ORGANISM: human growth hormone (native hGH)
119 <220> FEATURE:
120 <221> NAME/KEY: PEPTIDE
121 <222> LOCATION: (1)...(191)
122 <223> OTHER INFORMATION: native human growth hormone
124 <400> SEQUENCE: 8
125 Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn Ala Met Leu Arg
126 1          5          10          15
127 Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr Gln Glu Phe Glu
128      20          25          30
129 Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn Pro
130      35          40          45

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131 Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile Pro Thr Pro Ser Asn Arg
132      50                      55                      60
133 Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser Leu
134 65                      70                      75                      80
135 Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln Phe Leu Arg Ser Val
136                      85                      90                      95
137 Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser Asp Ser Asn Val Tyr Asp
138                      100                      105                      110
139 Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln Thr Leu Met Gly Arg Leu
140                      115                      120                      125
141 Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile Phe Lys Gln Thr Tyr Ser
142      130                      135                      140
143 Lys Phe Asp Thr Asn Ser His Asn Asp Asp Ala Leu Leu Lys Asn Tyr
144 145                      150                      155                      160
145 Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met Asp Lys Val Glu Thr Phe
146                      165                      170                      175
147 Leu Arg Ile Val Gln Cys Arg Ser Val Glu Gly Ser Cys Gly Phe
148                      180                      185                      190

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150 &lt;210&gt; SEQ ID NO: 9

151 &lt;211&gt; LENGTH: 192

152 &lt;212&gt; TYPE: PRT

153 &lt;213&gt; ORGANISM: human growth hormone (ala-hGH)

155 &lt;220&gt; FEATURE:

156 &lt;221&gt; NAME/KEY: VARIANT

157 &lt;222&gt; LOCATION: (1)...(1)

158 &lt;223&gt; OTHER INFORMATION: Alanine of Ala-hGH

160 &lt;221&gt; NAME/KEY: PEPTIDE

161 &lt;222&gt; LOCATION: (2)...(192)

162 &lt;223&gt; OTHER INFORMATION: human growth hormone

164 &lt;400&gt; SEQUENCE: 9

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165 Ala Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn Ala Met Leu
166 1      5                      10                      15
167 Arg Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr Gln Glu Phe
168      20                      25                      30
169 Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn
170      35                      40                      45
171 Pro Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile Pro Thr Pro Ser Asn
172      50                      55                      60
173 Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser
174 65                      70                      75                      80
175 Leu Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln Phe Leu Arg Ser
176                      85                      90                      95
177 Val Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser Asp Ser Asn Val Tyr
178      100                      105                      110
179 Asp Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln Thr Leu Met Gly Arg
180      115                      120                      125
181 Leu Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile Phe Lys Gln Thr Tyr
182      130                      135                      140
183 Ser Lys Phe Asp Thr Asn Ser His Asn Asp Asp Ala Leu Leu Lys Asn

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184	145				150					155				160		
185	Tyr	Gly	Leu	Leu	Tyr	Cys	Phe	Arg	Lys	Asp	Met	Asp	Lys	Val	Glu	Thr
186					165					170				175		
187	Phe	Leu	Arg	Ile	Val	Gln	Cys	Arg	Ser	Val	Glu	Gly	Ser	Cys	Gly	Phe
188					180					185				190		

VERIFICATION SUMMARY

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